

APPLICANT(S): WALD, Ofer  
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### AMENDMENTS TO THE CLAIMS

Please add or amend the claims to read as follows, and cancel without prejudice or disclaimer to resubmission in a divisional or continuation application claims indicated as cancelled:

1. (Currently amended) A method for managing peer to peer traffic, the method comprising:  
identifying a peer to peer request for a requested file that is stored within a cluster of servers;  
checking if the requested file is stored at one of predetermined devices that do not belong to an ISP network and the requested file does not belong to the cluster of servers;  
wherein if the requested file is stored in a predetermined device out of the predetermine devices the method comprises providing a list of possible file sources, the list comprises a member of the cluster of servers that stores the requested file and the predetermined device that stores the requested file .  
~~and in response providing at least one address of a peer to peer server within a cluster that is adapted to service peer to peer requests;~~
2. (Currently amended) The method according to claim 1 wherein the stage of providing involves providing contact information of multiple peer to peer servers, whereas at least two peer to peer servers belong to a cluster; and do not belong to an ISP network.
3. (Currently amended) The method according to claim 1 further comprising caching, (a) at the cluster, at least one peer to peer file and providing the at least one cached peer to peer file to a user and (b) caching outside a cluster at least one predetermined device file and providing at least one cached predetermined device file to a user.
4. (Currently amended) The method according to claim 1 wherein the caching on predetermined devices and on peer to peer servers involves applying a hash function.
5. (Currently amended) The method according to claim 1 comprising punching- plurality of holes in an ISP router filter for the connection to plurality of predetermined devices. The

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~~method according to claim 1 wherein the stage of providing comprises checking if the requested file is also stored outside the cluster.~~

6. (Currently amended) The method according to claim ~~54~~ further comprises a stage of providing contact information of possible file sources, wherein the possible file sources comprise plurality of predetermined devices.

7. (Currently amended) The method according to claim 6 wherein the provided contact information of possible file sources is responsive to (a) at least one user parameter, (b) at least one ISP router parameter, and (c) at least one cluster parameter.

8. (Currently amended) The method according to claim 6 wherein the provided contact information of possible file sources is responsive to at least one file source parameter or path parameter of predetermined device.

9. (Currently amended) The method of claim 1 further comprising (a) caching peer to peer files regardless of a request to retrieve a peer to peer file; (b) caching peer to peer files on predetermined devices regardless of a request to retrieve a peer to peer file.

10. (Currently amended) The method according to claim 1 further comprising providing an encrypted file to the user wherein the encryption corresponds to the encryption of the cluster and the source file is an encrypted file with encryption different from the encryption of the cluster.

11. (Currently amended) A system for managing peer to peer traffic, the system comprises:  
a cluster of peer to peer servers;  
and a first device adapted to identify a peer to peer request for a requested file that is stored within a cluster of servers and to ~~provide at least one address of a peer to peer server within the cluster.~~

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check if the requested file is stored at one of predetermined devices that do not belong to an ISP network and the requested file does not belong to the cluster of servers;

wherein if the requested file is stored in a predetermined device out of the predetermine devices the method comprises providing a list of possible file sources, the list comprises a member of the cluster of servers that stores the requested file and the predetermined device that stores the requested file.

**12.** (Currently amended) The system according to claim 11 first device provides contact information of multiple peer to peer servers, whereas at least two peer to peer servers belong to the cluster, and do not belong to an ISP network.

**13.** (Currently amended) ~~The system according to claim 11 wherein the cluster comprises multiple caching units.~~ The system according to claim 11 wherein the predetermined devices comprise multiple caching units.

**14.** (Currently amended) ~~The system according to claim 11 wherein at least one peer to peer server of the cluster determines a location of a file by applying a hash function.~~ The system according to claim 11 wherein at least on predetermined device determines a location of a file by applying hash function.

**15.** (Currently amended) The system according to claim 11 wherein at least one peer to peer server of the cluster ~~checks if a requested file is also stored outside the cluster.~~ punches plurality of holes in an ISP router filter for the connection to plurality of predetermined devices.

**16.** (Currently amended) The system according to claim 15 ~~44~~ wherein at least one peer to peer server of the cluster provides contact information of possible file sources.

**17.** (Currently amended) The system according to claim 16 wherein the provided contact information of possible file sources is responsive to (a) at least one user parameter, (b) at

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least one ISP router parameter, and (c) at least one parameter that belongs to the cluster of servers.

**18.** (Currently amended) The system according to claim 16 wherein the provided contact information of possible file sources is responsive to at least one file source parameter or path parameter of predetermined device.

**19.** (Currently amended) The system of claim 11 wherein (a) the cluster caches peer to peer files regardless of a request to retrieve a peer to peer file (b) the predetermined devices cache peer to peer files regardless of a request to retrieve a peer to peer file.

**20.** (Currently amended) The system according to claim 11 wherein at least one peer to peer server is adapted to provide an encrypted file to the user, wherein the encryption corresponds to the encryption of the cluster and the source file encryption is different from the encryption of the cluster.

**21.** (Currently amended) The system according to claim 11 wherein the cluster is located within an ISP ~~a network~~ operational center, and the predetermined devices belong to distant networks that are connected over costly connections.

**22.** (Currently amended) A method for managing peer to peer traffic, the method comprising:  
providing a cache that belongs to a cluster of servers that is adapted to service peer to peer requests from a first group of users;  
providing plurality of predetermined devices that do not belong to an ISP network and do not belong to the cluster, wherein the predetermined devices are adapted to service peer to peer requests from a first group of user;  
monitoring peer to peer traffic between at least one other group of users;  
and selectively caching at the cache at least a portion of the monitored peer to peer traffic on a cache that belongs to the cluster of servers and on plurality of predetermined devices that do not belong to an ISP network and do not belong to the cluster .

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**23.** (Currently amended) A method for managing traffic, the method comprises:  
identifying a request to receive a file over a network and providing at least one address of a server within a cluster of servers;  
~~and in response providing at least one address of a server within a cluster that is adapted to service requests to receive a file;~~  
distributing peer to peer files between the various members of the cluster;  
and providing peer to peer files previously stored in a member of the cluster from outside the cluster of servers if the member of the cluster fails.

**24.** (Currently amended) The method according to claim 23 wherein the cluster is configured to distribute the peer to peer file of the member if the member is not functional for at least a predetermined period of time ~~The method according to claim 23 wherein the cluster is adapted to operate as a web cache.~~

**25.** (Currently amended) The method according to claim 23 wherein the file is provided in an encrypted manner, wherein plurality of portions of file is encrypted using plurality of encryption parameters.

**26.** (Currently amended) The method according to claim 23 wherein the providing include providing multiple file portions, wherein each file portion is stored on plurality of members of the cluster.

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**27.** (Currently amended) The method according to claim 26 ~~3~~ wherein the cluster is adapted to store file portions on plurality of members using hash function.

**28.** (Currently amended) The method according to claim 23 wherein the request is ~~a peer to~~

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~~peer request~~ a request from one of predetermined devices that do not belong to an ISP network and does not belong to the cluster of servers.

29. (Original) The method according to claim 23 further comprising performing load balancing between members of the cluster-

30. (Currently amended) A system for managing traffic, the system comprises:

a cluster of servers; and

~~and a first device adapted to identify a request to receive a file over a network and to provide at least one address of a server within the cluster.~~

a first device adapted to identify a request to receive a file over a network and to provide at least one address of a server within the cluster;

wherein the system is configured to distribute peer to peer files between the various members of the cluster; and to provide peer to peer files previously stored in a member of the cluster from outside the cluster of servers if the member of the cluster fails.

31. (Currently amended) The system according to claim 30 wherein the cluster is configured to distribute the peer to peer file of the member if the member is not functional for at least a predetermined period of time ~~The system according to claim 30 wherein the cluster is adapted to operate as a web cache.~~

32. (Currently amended) The system according to claim 30 wherein the system provides a requested file in an encrypted manner, wherein plurality of portions of file is encrypted using plurality of encryption parameters.

33. (Currently amended) The system according to claim 30 wherein the system is adapted to

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provide multiple file portions, wherein each file portion is stored on plurality of members of the cluster.

**34.** (Currently amended) The system according to claim 30 wherein the cluster is adapted to store file portions on plurality of members using hash function.

**35.** (Currently amended) The system according to claim 30 wherein the system is adapted to service ~~peer-to-peer requests~~ requests from one of predetermined devices that do not belong to an ISP network and does not belong to the cluster of servers.

**36.** (Original) The system according to claim 30 further comprising a load balancer.